

FORM PTO-1390 (REV. 01-2003)		US DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE	
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER 127589	
INTERNATIONAL APPLICATION NO. PCT/JP2004/014458		INTERNATIONAL FILING DATE September 24, 2004	
		PRIORITY DATE CLAIMED October 1, 2003	
TITLE OF INVENTION METHOD FOR PRESERVING ORGANIC POLYMERIC MATERIAL AND ORGANIC ELECTROLUMINESCENT DEVICE			
APPLICANTS FOR DO/EO/US Takashi SHINOHARA; Yuji SHINOHARA; Koichi TERAO			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> <li>c. <input checked="" type="checkbox"/> The International Application was filed in English.</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>			
Items 11 to 20 below concern document(s) or information included:			
<ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> International Search Report; Submission of Informal Comments.</li> </ol>			

U.S. APPLICATION NO. (if known) 37 CFR 1.492(a) New U.S. National Stage of PCT/JP2004/014458 <b>107574539</b>		INTERNATIONAL APPLICATION NO. PCT/JP2004/014458		ATTORNEY'S DOCKET NUMBER 127589									
21. <input checked="" type="checkbox"/> The following fees are submitted:				<b>CALCULATIONS</b> <b>PTO USE ONLY</b>									
<b>BASIC NATIONAL FEE (37 CFR 1.492(a)):</b> ..... \$ 300.00		\$300.00											
<b>SEARCH FEE (37 CFR 1.492(b)(1)-(3)):</b>		\$400.00											
International preliminary examination report or written opinion prepared by the USPTO as IPEA or ISA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage ..... \$ 0.00													
International search fee (37 CFR 1.445(a)(2)) paid to USPTO as ISA ..... \$ 100.00													
International search report provided to USPTO no later than the time at which the search fee is paid ..... \$ 400.00													
All situations not provided for above ..... \$ 500.00													
<b>EXAMINATION FEE (37 CFR 1.492(c)(1)-(2)):</b>		\$200.00											
International preliminary examination report or written opinion prepared by the USPTO as IPEA or ISA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage ..... \$ 0.00													
All situations not provided for above ..... \$ 200.00													
Surcharge of \$130.00 for furnishing the search fee, the examination fee or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$											
<b>TOTAL PAGES OF APPLICATION OVER 100 ( - 100)</b>	$0 \div 50$	= <b>10</b>	$\times 250 =$	<b>\$0</b>									
<b>†round up to next integer</b>													
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$									
TOTAL CLAIMS	17 - 20	= 0	$\times 50.00 =$	\$0									
INDEPENDENT CLAIMS	1 - 3	= 0	$\times 200.00 =$	\$0									
MULTIPLE DEPENDENT CLAIM(S)(if applicable)			$+ 360.00 =$	\$									
		<b>TOTAL OF ABOVE CALCULATIONS =</b>		<b>\$900.00</b>									
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by $\frac{1}{2}$ .				\$									
		<b>SUBTOTAL =</b>		<b>\$900.00</b>									
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$									
		<b>TOTAL NATIONAL FEE =</b>		<b>\$900.00</b>									
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$									
		<b>TOTAL FEES ENCLOSED =</b>		<b>\$900.00</b>									
		Amount to be refunded:		\$									
		charged:		\$									
a. <input checked="" type="checkbox"/> Check No. 178463 in the amount of \$900.00 to cover the above fees is enclosed.													
b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.													
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>15-0461</u> . A duplicate copy of this sheet is enclosed.													
d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.													
<b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</b>													
SEND ALL CORRESPONDENCE TO: OLIFF & BERRIDGE, PLC Customer Number: 25944													
<table border="0"> <tr> <td colspan="2">NAME: James A. Oliff</td> </tr> <tr> <td colspan="2">REGISTRATION NUMBER: 27,075</td> </tr> <tr> <td colspan="2">NAME: Joel S. Armstrong</td> </tr> <tr> <td colspan="2">REGISTRATION NUMBER: 36,430</td> </tr> </table>						NAME: James A. Oliff		REGISTRATION NUMBER: 27,075		NAME: Joel S. Armstrong		REGISTRATION NUMBER: 36,430	
NAME: James A. Oliff													
REGISTRATION NUMBER: 27,075													
NAME: Joel S. Armstrong													
REGISTRATION NUMBER: 36,430													
Date <u>April 3, 2006</u>													

10/574539

JAP15 Rec'd PCT/PTO 03 APR 2006  
PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Takashi SHINOHARA et al.

Attn: PCT Branch

Application No. New U.S. National Stage of PCT/JP2004/014458

Filed: April 3, 2006

Docket No.: 127589

For: METHOD FOR PRESERVING ORGANIC POLYMERIC MATERIAL AND  
ORGANIC ELECTROLUMINESCENT DEVICE

**SUBMISSION OF INFORMAL COMMENTS IN RESPONSE TO PCT WRITTEN  
OPINION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Attached hereto is a copy of Informal Comments in Response to PCT Written Opinion that were filed in the PCT application.

Respectfully submitted,

James A. Oliff  
Registration No. 27,075

Joel S. Armstrong  
Registration No. 36,430

JAO:JSA/per

Date: April 3, 2006

**OLIFF & BERRIDGE, PLC**  
P.O. Box 19928  
Alexandria, Virginia 22320  
Telephone: (703) 836-6400

DEPOSIT ACCOUNT USE  
AUTHORIZATION  
Please grant any extension  
necessary for entry;  
Charge any fee due to our  
Deposit Account No. 15-0461

PATENT &amp; TRADEMARK ATTORNEYS

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March 17, 2006

PCT Operations Division  
The International Bureau of WIPO  
34 Chemin des Colombettes  
1211 Geneva 20  
Switzerland

Informal Comments

International Application No.: PCT/JP2004/014458

International Filing Date: 24.9.2004

Applicant: SEIKO EPSON CORPORATION

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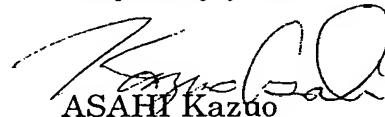
Telephone No.: 03-3595-3251

Applicant's or Agent's File reference: EPS-54-PCT

Dear Sir:

The Applicant, who received the International Search Report relating to the above-identified International Application, files Informal Comment attached hereto.

Very truly yours,

  
ASAHI Kazuo

## Attachment:

(1) Informal Comments	2 sheets
(2) BAYTRON "Product Information"	2 sheets

**Applicant's Comments on an Informal Basis**  
**on the Written Opinion of the International Searching Authority**

With regard to the written opinion of the International Searching Authority in the separate sheet, we would ask to consider the following points.

(1) In the written opinion, the Examiner says that "The product information of Baytron P reports that Baytron P comprises 0.9wt% of organic acid and have a pH up to 2.5 at room temperature." (We suppose that this recognition is made based on the characteristics "pH value: 1.5 to 2.5 at 20°C" and "PSS content: approximately 0.9% by weight" in the front page of the Product Information.) Further, the Examiner also says that that "Example 1 of this application reports that the product Baytron P was dispersed in pure water so that the concentration thereof might be 2wt%. Based on this understanding, the Examiner recognizes that "As remarked above the concentration of organic acid polymer in Baytron P is already lower than 2 wt%. Thus dilution of organic acid in water is far away from providing a concentration of organic acid as required in claim 1 of the present application.".

However, there are several types of Baytron P, and the Baytron P which is used in Example 1 is a product named "Baytron P VP CH8000". This fact is apparent from the description "It should be noted that the pH (at 25°C) of the dispersion liquid was 1.2." (see the second paragraph of page 27 of this application). As shown in the attached sheets (Product Information of Baytron P), in the case of Baytron P VP CH 8000, the solid content by weight is in the range of 2.5 to 3 wt% and pH at 20°C is in the range of 1.2 to 1.8 (see Table of page 2 of 2). Therefore, when Baytron P VP CH 8000 is used, that is, in the case of Example 1 of this application, the concentration of organic acid polymer (organic polymeric material of the present invention) can be lowered to 2 wt% without any problem. Therefore, we believe that there is no problem in dispersing Baytron P VP CH800 so that the concentration thereof becomes 2 wt% while the pH of the dispersion liquid is 1.2. Therefore, we believe that the Examiner's opinion mentioned above is not correct.

(2) Further, in the item 1.3 of the written opinion, the Examiner says that there is a discrepancy between the descriptions of Example 2 and Claim 1 because Example 2 reports that "prior to the manufacture of the organic EL device, each of the dispersion liquid which had been preserved was concentrated so that the amount of PEDT/PSS

contained in the liquid was 2 wt%", which means that the concentration of the composition during preservation was lower than 2 %wt, whereas Claim 1 requires that the concentration of organic acid was 2 %wt.

In this regard, however, please note that Claim 1 does not define the value of the concentration of the composition during the preservation. Claim 1 merely defines that a pH (at 25°C) of the liquid which has been obtained by dissolving or dispersing the organic polymeric material in liquid so that a concentration thereof is 2 wt% is measured, and then the organic polymeric material is adjusted for preservation so that a pH (at 25°C) during the preservation becomes higher than the measured pH (at 25°C) and then the organic polymeric material be preserved at the higher pH value condition. Namely, the composition (organic polymeric material) is not preserved in a state that the concentration thereof is 2 wt%, but preserved at the higher pH value which is higher than the measured pH value. The concentration of the composition has to be 2 %wt when a pH is measured, but it does not have to be 2 %wt during the preservation. Therefore, the concentration of the composition during preservation can be lower than 2 %wt.

However, in order to avoid such a confusion, claim 1 may be amended so as to be read as follows.

"characterized in that when the organic polymeric material is to be preserved, the organic polymeric material is dissolved or discharged in the liquid so that a concentration thereof is 2 wt% and at that time a pH (at 25°C) of the thus obtained liquid is measured, and then the obtained liquid is adjusted so that its pH value becomes higher than the measured pH (at 25°C), and then the liquid be preserved under the higher pH value condition."